Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the

application. Applicants have submitted a new complete claim set showing any marked

up claims with insertions indicated by underlining and deletions indicated by strikeouts

and/or double bracketing.

Listing of Claims:

1-29. (Cancelled).

30. (Currently Amended) In a system that receives data from a plurality of data

sources, a method of bandwidth allocation for transmitting video on a cable network,

comprising:

receiving the data from the plurality of data sources;

identifying compression parameters to be used to compress the data that is

received from the plurality of data sources to a desired depth of compression, the

selection of compression parameters being based on a function of types of data to be

displayed and a function of client capabilities, wherein the types of data are determined

from content of data received from the respective plurality of data sources;

associating the compression parameters with a set of values and threshold ranges

for degrading image quality based on the types of data and the client capabilities;

degrading the image quality based on the types of data and the client capabilities

for differentially converting said data into compressed video streams responsive to an

instantaneous resource restriction; and

multiplexing said compressed video streams on a single transmission line.

Type of Response: Amendment

Application Number: 09/770,765

Attorney Docket Number: 150824.05

31. (Previously Presented) A method according to claim 30, wherein said

differentially converting comprises converting each data source to a different frame rate

compressed video stream.

32. (Previously Presented) A method according to claim 30, wherein said

differentially converting comprises, converting each data source to a different frame

quality.

33. (Previously Presented) A method according to claim 30, wherein said resource

restriction comprises a bandwidth restriction.

34. (Previously Presented) A method according to claim 30, wherein said resource

restriction comprises a computing resource restriction.

35. (Previously Presented) A method according to claim 30, wherein said data

sources comprise display commands.

36. (Cancelled).

37. (Previously Presented) A method according to claim 30, comprising providing

an indication of said content with said data sources.

38. (Previously Presented) A method according to claim 30, comprising providing

an indication of said content by analyzing display commands which are comprised in said

data sources.

Type of Response: Amendment

Application Number: 09/770,765

Attorney Docket Number: 150824.05

39. (Previously Presented) A method according to claim 30, comprising providing

an indication of said content by a software which generates at least one of said data

sources.

40-42. (Cancelled)

43. (Previously Presented) A method as recited in claim 30, wherein the

instantaneous resource restriction comprises an instantaneous computing resource

restriction.

44. (Previously Presented) A method according to claim 34, wherein said

differentially converting comprises converting each data source to a different frame rate

compressed video stream.

45. (Previously Presented) A method according to claim 34, wherein said

differentially converting comprises, converting each data source to a different frame

quality

46. (Cancelled).

47. (Previously Presented) A method according to claim 31, wherein said

differentially converting further comprises converting each data source to a different

frame quality level.

48. (Previously Presented) A method according to claim 31, wherein said resource

restriction comprises a bandwidth restriction.

Type of Response: Amendment

Application Number: 09/770,765

Attorney Docket Number: 150824.05

49. (Previously Presented) A method according to claim 31, wherein said resource

restriction comprises a computing resource restriction.

50. (Previously Presented) A method as recited in claim 30, wherein differentially

converting comprises asynchronic compression, such that new compressed data is

generated only when a corresponding change has first occurred in an image.

51. (Previously Presented) A method as recited in claim 50, further including

queuing and delaying generation of new compressed data to accommodate the

instantaneous resource restriction.

52. (Previously Presented) A method as recited in claim 30, wherein a same

compression depth is achieved for each client receiving compressed video streams from

the system.

53. (Previously Presented) A method as recited in claim 30, wherein the content

includes a hint corresponding to how the content should be compressed and multiplexed

based upon a minimum bandwidth requirement needed by a client.

54. (Previously Presented) A method as recited in claim 53, wherein the hint

comprises a hint regarding a maximum quality reduction that can be applied to the

content.

55. (Previously Presented) A method as recited in claim 30, wherein the types of

data to be displayed include parts of a display.

56. (Previously Presented) A method as recited in claim 55, wherein the parts of

the display include at least one of an icon and a menu bar.

Type of Response: Amendment

Application Number: 09/770,765

Attorney Docket Number: 150824.05

57. (Previously Presented) A method as recited in claim 30, wherein the types of

data to be displayed include computer game data and text data, and wherein the text data

is associated with a value that permits a greater depth of compression.

58. (Cancelled).

59. (Previously Presented) A method as recited in claim 30, wherein the client

capabilities are determined based on a customer identifier.

60. (Previously Presented) A method as recited in claim 59, wherein the customer

identifier is a digital subscriber number.

61. (New) An apparatus that receives data from a plurality of data sources

and allocates bandwidth for transmitting video on a cable network, comprising:

a cable data server configured to:

receive the data from the plurality of data sources,

identify compression parameters to be used to compress the data that is

received from the plurality of data sources to a desired depth of compression, the

selection of compression parameters being based on a function of types of data to

be displayed and a function of client capabilities, wherein the types of data are

determined from content of data received from the respective plurality of data

sources,

associate the compression parameters with a set of values and threshold

ranges for degrading image quality based on the types of data and the client

capabilities,

Type of Response: Amendment

Application Number: 09/770,765

Attorney Docket Number: 150824.05

degrade the image quality based on the types of data and the client capabilities for differentially converting said data into compressed video streams responsive to an instantaneous resource restriction, and multiplex said compressed video streams on a single transmission line.

Type of Response: Amendment Application Number: 09/770,765 Attorney Docket Number: 150824.05 Filing Date: January 25, 2001